

CLAIMS

1. A display device comprising an image-generating element for generating an
5 image, spectacles comprising spectacle lenses, first optics comprising a coupling-in element
for coupling the generated image into the field of vision of a user wearing said spectacles,
wherein the first optics are mounted on a first one of the spectacle lenses by means of a
form-locking connection, and the coupling-in element is separated from the first spectacle
lens by a gap.

10 2. The display device as claimed in Claim 1, wherein the first optics are
mounted on the first spectacle lens by means of a screw connection.

15 3. The display device as claimed in Claim 1, wherein the first optics are
screwed onto the first spectacle lens by means of at least two screws.

20 4. The display device as claimed in Claim 1, wherein the first optics are
connected to the first spectacle lens in the edge region, preferably the upper edge region of
the first spectacle lens.

5. The display device as claimed in Claim 1, wherein the first spectacle lens is
located between the coupling-in element and an eye of the user wearing the spectacles.

25 6. The display device as claimed in Claim 1, wherein the coupling-in element
causes folding of the optical path for light rays of the image which come from the image-
generating element.

7. The display device as claimed in Claim 1, wherein the coupling-in element causes said folding of the optical path by means of a beam splitter, which is arranged such that the generated image is perceivable, by a user wearing the spectacles, as superimposed on the environment.

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8. The display device as claimed in Claim 1, wherein the coupling-in element comprises a deflecting mirror for folding the optical path.

9. The display device as claimed in Claim 1, wherein an adjusting device is provided, using which the position and orientation of at least one of the coupling-in element and the first optics relative to the first spectacle lens can be adjusted and fixed.

10. The display device as claimed in Claim 1, wherein a further image-generating element for generating a further image, as well as second optics comprising a further coupling-in element for coupling the further image into the field of vision of a user wearing said spectacles are provided, wherein one of the second optics and of a second support to which the second optics are connectable is mounted on the second spectacle lens by means of a form-locking connection, and the further coupling-in element of the second optics is separated from the second spectacle lens by a gap.

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11. A display device comprising an image-generating element for generating an image, spectacles comprising spectacle lenses, first optics comprising a coupling-in element for coupling the generated image into the field of vision of a user wearing said spectacles, and a first support to which the first optics are connectable, wherein the first support is mounted on a first one of the spectacle lenses by means of a form-locking connection, and the coupling-in element is separated from the first spectacle lens by a gap.

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12. The display device as claimed in Claim 11, wherein the first support is mounted on the first spectacle lens by means of a screw connection.

13. The display device as claimed in Claim 11, wherein the first support is
5 screwed onto the first spectacle lens by means of at least two screws.

14. The display device as claimed in Claim 11, wherein the first support is connected to the first spectacle lens in the edge region, preferably the upper edge region of the first spectacle lens.

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15. The display device as claimed in Claim 1, wherein the first spectacle lens is located between the coupling-in element and an eye of the user wearing the spectacles.

16. The display device as claimed in Claim 11, wherein the first optics, or their
15 support, respectively, are (is) connectable to the first support by means of a further form-locking connection.

17. The display device as claimed in Claim 11, wherein the first optics, or their support, respectively, are (is) releasably connected to the first support.

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18. The display device as claimed in Claim 11, wherein the coupling-in element causes folding of the optical path for light rays of the image which come from the image-generating element.

25 19. The display device as claimed in Claim 11, wherein the coupling-in element causes said folding of the optical path by means of a beam splitter, which is arranged such

that the generated image is perceivable, by a user wearing the spectacles, as superimposed on the environment.

20. The display device as claimed in Claim 11, wherein the coupling-in element
5 comprises a deflecting mirror for folding the optical path.

21. The display device as claimed in Claim 11, wherein an adjusting device is provided, using which the position and orientation of at least one of the coupling-in element and the first optics relative to the first spectacle lens can be adjusted and fixed.

10 22. The display device as claimed in Claim 11, wherein a further image-generating element for generating a further image, as well as second optics comprising a further coupling-in element for coupling the further image into the field of vision of a user wearing said spectacles are provided, wherein one of the second optics and of a second
15 support to which the second optics are connectable, is mounted on the second spectacle lens by means of a form-locking connection, and the further coupling-in element of the second optics is separated from the second spectacle lens by a gap.